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HEWLETT-PACKARD COMPANY			LAM, ANDREW H	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/998,797	WEAVER, JEFFREY SCOT
Office Action Summary	Examiner	Art Unit
	Andrew H. Lam	2624
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet w	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thir ry period will apply and will expire SIX (6) MON by statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed of	on	
	☐ This action is non-final.	
3) Since this application is in condition for	allowance except for formal mat	ers, prosecution as to the merits is
closed in accordance with the practice	under <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.
Disposition of Claims		•
4)⊠ Claim(s) <u>1-21</u> is/are pending in the app	lication.	
4a) Of the above claim(s) is/are v		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-21</u> is/are rejected.	,	
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	n and/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the E	xaminer.	
10) The drawing(s) filed on is/are: a)		by the Examiner
Applicant may not request that any objection		•
Replacement drawing sheet(s) including the	• • • • • • • • • • • • • • • • • • • •	, ,
11) The oath or declaration is objected to by	·	• • • • • • • • • • • • • • • • • • • •
Priority under 35 U.S.C. § 119	foreign priority and a 05 H O O	2 4 4 0 (a) (d) a= (5)
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority does		7 119(a)-(a) or (t).
2. Certified copies of the priority doc		polication No
3. ☐ Copies of the certified copies of the		· ·
application from the International	· · · · · · · · · · · · · · · · · · ·	Telegraphic and Hamonai Glago
* See the attached detailed Office action for	, , , , , , , , , , , , , , , , , , , ,	received.
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Attachment(s)		
<u> </u>	4) 🖂 Intonious	Summary (PTO-413)
1) M Notice of References Cited (PTO-692)	411 IIII PI VIEW :	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO 	948) Paper No(s)/Mail Date nformal Patent Application (PTO-152)

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: on page 10 of the specification lines 14-15, states "Upon actuating the "okay" actuator 1050", the fig. 10 does not have a reference number for the "okay" actuator.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 3, 6, 7, 8, 17, 18, 20 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Mazzagatte et al (U.S. 6862583).

Regarding claim 1, Mazzagatte discloses a method for providing documents to an authorized user, said method comprising: receiving, via a computer network (fig. 1, network 100 connected to clients 10 and 20 with

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printers 30 and 57), information to be printed and first information corresponding to a user (col. 8, lines 19, sender submits print job with unique identification information); receiving second information corresponding to a user (col. 9, lines 32-34, the intended recipient then arrived at the printer and present the proper authentication information in order to process the print job); comparing the first information to the second information (col. 9, lines 56-61, the intended recipient is "challenge/response" to verify the integrity of the unique identification information); and enabling printing of the information to be printed if the second information corresponds to the first information (col. 9, lines 61-62, once the recipient is authenticated, the printer then proceeds with the printout process).

Regarding claim 2, Mazzagatte discloses the method of claim 1, further comprising: providing a printing device (fig. 1, image forming device 50); and wherein receiving second information corresponding to a user comprises: receiving the second information from the user at the printing device (col. 9, lines 42-44, the intended recipient presents authentication information to the printer).

Regarding claim 3, Mazzagatte discloses the method of claim 2, further comprising: providing an identification device configured to transmit the second information (col. 9, lines 50-51, the user transmit the unique identification information in digital form to the printer, i.e. smart-card); and wherein receiving the second information is enabled when the identification device is in a proximity of the printing device (col. 9, lines 50-55, the intended recipient insert the smart-card containing unique identification information into the smart-card reader).

Regarding claim 6, Mazzagatte the method of claim 1, further comprising:

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determining whether the second information is being received; and discontinuing printing of the information to be printed if the second information is not being received (col. 9, lines 32-35, the print job is held in the print queue and can not be process further until the recipient present the proper authentication information in order to retrieve the print job and have it printed).

Regarding claim 7, Mazzagatte discloses the method of claim 1, further comprising: preventing the information to be printed from being printed if the second information does not correspond to the first information (col. 9, lines 62-65, if the authentication failed then the printer does not process the print job).

Regarding claim 8, Mazzagatte discloses the method of claim 1, further comprising: storing the information to be printed and the first information at a time after receipt (col. 9, lines 8-10, once the printer receive the print data and the digital certificate the information is stored, i.e. is stored in print queue); and erasing the information to be printed at a time after printing (col. 10, lines 15-20, the intended recipient uses the smart-card to authenticate himself, once authenticated the job is printed from the print queue--it is known in the art that a print queue is a lineup of items waiting to be printed and that the job will be removed from the queue once it is processed).

Regarding claim 17, Mazzagatte discloses a print system (fig. 1, printing system) comprising: a print authorization system (fig. 1, smart card reader 35) configured to: receive, via a computer network (fig. 1, network 100), information to be printed and first information corresponding to a user (col. 8, lines 19, sender submits print job with unique identification information); receive second

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information corresponding to a user (col. 9, lines 32-34, the intended recipient then arrived at the printer and present the proper authentication information in order to process the print job); compare the first information to the second information (col. 9, lines 56-61, the intended recipient is "challenge/response" to verify the integrity of the unique identification information); and enable printing of the information to be printed if the second information corresponds to the first information (col. 9, lines 61-62, once the recipient is authenticated, the printer then proceeds with the printout process).

Regarding claim 18, Mazzagatte discloses the print system of claim 17, wherein the print authorization system is further configured to determine whether the second information is being received and discontinue printing of the information to be printed if the second information is not being received (col. 9, lines 32-35, the print job is held in the print queue and can not be process further until the recipient present the proper authentication information in order to retrieve the print job and have it printed).

Regarding claim 20, Mazzagatte discloses a computer readable medium (col. 5, lines 11-13, fixed disk 280 is an example of a computer readable medium that stores program instruction sequences executeable by a CPU, see fig. 2) comprising: logic configured (fig. 3, control logic 320) to receive information to be printed and first information corresponding to a user (col. 8, lines 19, sender submits print job with unique identification information); logic configured (fig. 3, smartcard interface 365) to receive second information corresponding to a user (col. 9, lines 32-34, the intended recipient then arrived at the printer and present

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the proper authentication information in order to process the print job); logic configured (fig. 3, printer memory 51) to compare the first information to the second information(col. 9, lines 56-61, the intended recipient is "challenge/response" to verify the integrity of the unique identification information); and logic configured (fig. 3, printer memory 51) to enable printing of the information to be printed if the second information corresponds to the first information (col. 9, lines 61-62, once the recipient is authenticated, the printer then proceeds with the printout process).

Regarding claim 21, Mazzagatte discloses the computer readable medium of claim 20, further comprising: logic configured to determine whether the second information is being received; and logic configured (fig. 3, printer memory 51) to discontinue printing of the information to be printed if the second information is not being received (col. 9, lines 32-35, the print job is held in the print queue and can not be process further until the recipient present the proper authentication information in order to retrieve the print job and have it printed).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4,5, 9-16, and 19, rejected under 35 U.S.C. 103(a) as being unpatentable over Mazzagatte in view of Herbert (U.S. 6212505).

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Regarding claim 4 which depends on claim 2, Mazzagatte discloses a method for providing documents to an authorized user, said method comprising: receiving, via a computer network (fig. 1, network 100 connected to clients 10 and 20 with printers 30 and 57), information to be printed and first information corresponding to a user (col. 8, lines 19, sender submits print job with unique identification information); receiving second information corresponding to a user (col. 9, lines 32-34, the intended recipient then arrived at the printer and present the proper authentication information in order to process the print job); comparing the first information to the second information (col. 9, lines 56-61, the intended recipient is "challenge/response" to verify the integrity of the unique identification information); and enabling printing of the information to be printed if the second information corresponds to the first information (col. 9, lines 61-62, once the recipient is authenticated, the printer then proceeds with the printout process).

Mazzagatte does not disclose expressly a method for storing third information; providing a print cartridge configured to transmit fourth information, said print cartridge being installed in the printing device and containing ink for printing; comparing the third information to the fourth information; and enabling printing of the information to be printed if the fourth information corresponds to the third information.

Herbert discloses a method for using a smart device on the cartridge to communicate with a sensor port connected to the microprocessor. The microprocessor reads data recorded in the smart device and if the unique identity of the print head module read from the smart device is recognized by the

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microprocessor of the postage meter, the microprocessor continues with the postage printing (col.4, lines 9-14).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Mazzagatte as per teaching of Herbert because of the following reason: by using a smart device embedded on the ink cartridge measures are taken to ensure that only authorized print cartridge are used to connect to the printing device (col. 3, lines 62-67). Thus, achieving the objective of Mazzagatte, which is to authenticate secure printing of document for the intended recipient.

Regarding claim 5, which depends from claim 4, the combination further teaches [in Herbert]: wherein storing the third information and comparing the third information to the fourth information is performed at the printing device (the microprocessor reads data recorded in the smart device and if the unique identity of the print head module read from the smart device is recognized by the microprocessor of the postage meter, the microprocessor continues with the postage printing (col.4, lines 9-14).

Regarding claim 9, Mazzagatte discloses print system (fig. 1, printing system) comprising: providing documents to an authorized user, said apparatus comprising: receiving, via a computer network (fig. 1, network 100 connected to clients 10 and 20 with printers 30 and 57), information to be printed and first information corresponding to a user (col. 8, lines 19, sender submits print job with unique identification information); receiving second information corresponding to a user (col. 9, lines 32-34, the intended recipient then arrived at the printer and

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present the proper authentication information in order to process the print job); comparing the first information to the second information (col. 9, lines 56-61, the intended recipient is "challenge/response" to verify the integrity of the unique identification information); and enabling printing of the information to be printed if the second information corresponds to the first information (col. 9, lines 61-62, once the recipient is authenticated, the printer then proceeds with the printout process).

Mazzagatte does not disclose expressly a printing device having a first print cartridge and an identification reader, the first print cartridge containing a print substance for printing on a print medium, the first cartridge having a transmitter readable identification tag for providing first information, the identification reader being configured to receive the first information from the identification tag, such that, if the first information corresponds to the printing device, the identification reader enables the printing device to print

Herbert discloses a printing device for using a smart device on the cartridge to communicate with a sensor port connected to the microprocessor. The microprocessor reads data recorded in the smart device and if the unique identity of the print head module read from the smart device is recognized by the microprocessor of the postage meter, the microprocessor continues with the postage printing (col.4, lines 9-14).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Mazzagatte as per teaching of Herbert because of the following reason: by using a smart device embedded on the ink

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cartridge measures are taken to ensure that only authorized print cartridge are used to connect to the printing device (col. 3, lines 62-67). Thus, achieving the objective of Mazzagatte, which is to authenticate secure printing of document for the intended recipient.

Regarding claim 10, which depends from claim 9, the combination further teaches [in Mazzagatte] wherein the identification reader includes a receiver (col. 8, line 34, smart card reader 15, see fig. 1), the receiver being adapted to receive the first and third information via wireless communication (col. 9, line 52, insert smart card into smart card reader).

Regarding claim 11, which depends from claim 9, the combination further teaches [in Mazzagatte], wherein the identification reader includes means for receiving information via wireless communication (col. 9, line 52, insert smart card into smart card reader).

Regarding claim 12, which depends from claim 9, the combination further teaches [in Mazzagatte], further comprising: user identification tag adapted to communicate with the identification reader via wireless communication (col. 9, line 52, insert smart card into smart card reader), the identification tag including a memory (inherently smart card holds some sort of identification number therefore it has memory), the memory storing data corresponding to the third information (col 8, lines 35-37, the smart card contain the recipient's unique identification information in digital form), the user identification tag being adapted to provide the third information to the identification reader (col. 9, line 52, insert smart card into smart card reader).

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Regarding claim 13, which depends from claim 9, the combination further teaches [in Herbert], further comprising: a second print cartridge having an identification reader, the second print cartridge containing a print substance for printing on a print medium and a readable identification tag for providing the first information, the second print cartridge being adapted to be installed in the printing device after the first print cartridge is removed from the printing device (col. 3, lines 62-67, the first cartridge is removed and a new print cartridge (second print cartridge) is installed, col. 4, lines 9-14 the microprocessor reads data recorded in the smart device and if the unique identity of the print head module read from the smart device is recognized by the microprocessor of the postage meter, the microprocessor continues with the postage printing).

Regarding claim 14, which depends from claim 9, the combination further teaches [in Mazzagatte], wherein the print authorization system is a print-end print authorization system implemented by the printing device (fig. 1, smart card read 15 is attached to pc 15); and further comprising: a user-end print authorization system adapted to communicate with the printing device (col. 4, lines 23-25, smart card reader 35 is interface with copier 30, see fig 1), the user-end print authorization system being configured to enable a user to provide the second information to the print-end print authorization system via a communication network (fig. 1, network 100, interface communication between the user pc 10 and the printer 30).

Regarding claim 15, which depends from claim 9, the combination further teaches [in Mazzagatte], wherein the user-end print authorization system is

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adapted to provide a user interface (fig. 2, display interface 250), the user interface enabling a user to designate information to be printed and select a secure-enable mode (col. 7, line 57-58, one can select secure or non-secure transmission mode) such that, when the user selects the secure-enable mode, the information to be printed can only be printed by the printing device while the identification reader receives the third information (col. 9, lines 32-35, the print job is held in the print queue and can not be process further until the recipient present the proper authentication information in order to retrieve the print job and have it printed).

Regarding claim 16, which depends from claim 9, the combination further teaches [in Mazzagatte], wherein the printing device includes memory (fig. 3, printer memory 51), the printing device being configured to store the information to be printed (fig. 3, queue 356 to store print job) and the first information in the memory at a time after receipt (col. 8, lines 19, sender submits print job with unique identification information), the printing device being further configured to render the information to be printed inaccessible from the memory at a time after printing (col. 10, lines 15-20, the intended recipient uses the smart-card to authenticate himself, once authenticated the job is printed from the print queue--it is known in the art that a print queue is a lineup of items waiting to be printed and that the job will be removed from the queue once it is processed).

Regarding claim 19, which depends from claim 17, the combination further teaches [in Herbert], further comprising: a printing device communicating with the print authorization system, the printing device having a first print cartridge and an

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identification reader, the first print cartridge containing a print substance for printing on a print medium, the first cartridge having a readable identification tag for providing first information, the identification reader being configured to receive the first information from the identification tag, such that, if the first information corresponds to the printing device, the identification reader enables the printing device to print; and wherein the print authorization system is implemented in logic associated with the printing device(col. 3, lines 62-67, the first cartridge is removed and a new print cartridge (second print cartridge) is installed, col. 4, lines 9-14 the microprocessor reads data recorded in the smart device and if the unique identity of the print head module read from the smart device is recognized by the microprocessor of the postage meter, the microprocessor continues with the postage printing).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew H. Lam whose telephone number is (571) 272-8569. The examiner can normally be reached on M-F (9:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on (571) 272-7437. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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